Message

From: Hyland, Patrick T. [pat.hyland@ou.edu]
Sent: 5/7/2018 2:06:47 PM
To: Troche, Luis [Troche.Luis@epa.gov]
CC: Roop, Kari D. [kroop@ou.edu]; Pirtle, Keli P. [keli.pirtle@noaa.gov]; Emily Summars [emily.summars@noaa.gov]
Subject: Re: Confirming short conference calls to discuss potential deliverables at NWC for the 2018 CEC Council Session in Oklahoma City
Attachments: ATT00001.txt

Hi Luis,

That works for me, so I will let my colleagues chime in to see if that time works for them as well.

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From: Troche, Luis <Troche.Luis@epa.gov>
Sent: Monday, May 7, 2018 8:59:02 AM
To: Hyland, Patrick T.
Cc: Roop, Kari D.; Pirtle, Keli P.; Emily Summars
Subject: RE: Confirming short conference calls to discuss potential deliverables at NWC for the 2018 CEC Council Session in Oklahoma City

HI Patrick—I have time. How about 4:30 DC time—3:30 yours. We would use a different line so it's a gov-only conversation.

I'll send you an appointment and you can counter if needed.

Luis Troche
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From: Hyland, Patrick T. [mailto:pat.hyland@ou.edu]
Sent: Monday, May 07, 2018 9:57 AM
To: Troche, Luis <Troche.Luis@epa.gov>
Cc: Roop, Kari D. <kroop@ou.edu>; Pirtle, Keli P. <keli.pirtle@noaa.gov>; Emily Summars <emily.summars@noaa.gov>
Subject: Re: Confirming short conference calls to discuss potential deliverables at NWC for the 2018 CEC Council Session in Oklahoma City

Hi Luis,

I was hoping that you would have some time today during our call or some time this week to speak with Kari Roop, our Director of External Relations, and Keli Pirtle with NOAA Weather Partners Public Affairs, both copied here, to discuss the delegation visit and deliverables.

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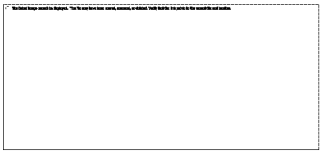

From: Troche, Luis <Troche.Luis@epa.gov>
Sent: Monday, May 7, 2018 8:26:42 AM
To: Hyland, Patrick T.; Hong, Nadtya; Nathalie Daoust (ndaoust@cec.org)
Cc: Palmer, Robert D.; Emily Summars; Mc Pherson, Renee A.; Martinez, Cynthia C.
Subject: Confirming short conference calls to discuss potential deliverables at NWC for the 2018 CEC Council Session in Oklahoma City

Good Morning NWC Colleagues,

EPA appreciated the time with you during our recent visit to continue designing our event at EWC. As we briefly discussed, we would like to explore opportunities to advance trilateral (Canada-Mexico- US) coordination/cooperation on activities of mutual interest to NWC and the three governments. I have briefed Canada and Mexico on some of the ideas you suggested, but I need to learn a little more to help them consider the ideas and identify potential partners.

We have set up a short call with Mr. Palmer already. Would Emily, Cynthia and Rene have 30 minutes this week—ideally Mon -weds, for individual calls with me to follow up? If you let me know your availability, we can figure out a time.

Patrick—an item that also appealed to all three governments is any activities, deliverable or potential collaboration on extreme weather. I recall the NWC also works on that topic. Who would be a contact to explore this further?

Thanks to everyone,

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From: Hyland, Patrick T. [mailto:pat.hyland@ou.edu]
Sent: Tuesday, May 01, 2018 3:36 PM
To: Troche, Luis <Troche.Luis@epa.gov>; Hong, Nadtya <Hong.Nadtya@epa.gov>; Nathalie Daoust (ndaoust@cec.org) <ndaoust@cec.org>

Cc: Palmer, Robert D. <rpalmer@ou.edu>; Emily Summars <emily.summars@noaa.gov>; Mc Pherson, Renee A. <renee@ou.edu>; Martinez, Cynthia C. <cmartinez@ou.edu>
Subject: Re: For Mon May 7 or Tuesday May 8 - Conference call to discuss potential deliverables for the 2018 CEC Council Session in Oklahoma City

Let me connect you with Bob (ARRC), Emily (CIMMS), Renee (SCCSC), and Cynthia (geoCARB) to see if they would be available to join a call on either Monday or Tuesday.

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From: Troche, Luis <Troche.Luis@epa.gov>
Sent: Tuesday, May 1, 2018 12:24:06 PM
To: Hyland, Patrick T.; Hong, Nadtya
Cc: Nathalie Daoust (ndaoust@cec.org)
Subject: For Mon May 7 or Tuesday May 8 - Conference call to discuss potential deliverables for the 2018 CEC Council Session in Oklahoma City

Hi Patrick—welcome back!

Following up on Nadtya's email—would it be easier if we have our call next Monday or Tuesday? Any time 1:00PM EDT or later would work both days.
Potential agenda
-15 min with Dr. Palmer
- 30 min with CIMMs
- 30 min with SCCSC
- 30 min with GeoCARB

Topics as highlighted below and any other updates since our visit.
Please let us know on availability and timing.
Thanks.

As we discussed during our recent visit, we would like to explore in more detail exactly what we might consider as potential deliverables to be conceptualized or developed before the Council Session. From my notes, I recall the following potential opportunities (in too-bright yellow):

(confirmed attending) ARRC (https://arrc.ou.edu/) **and NSSL** (https://www.nssl.noaa.gov/): A national leader in radar research and severe storm research. Experts on radar meteorology can discuss the latest advancements in weather-radar technology, collaboration with the US, Mexico, and Canada, and the use of weather radar not only to look at weather, but to monitor birds, bats, insects, and migration patterns (aeroecology).

Advanced Radar Research Center

arrc.ou.edu

Welcome from the Executive Director Welcome to the Advanced Radar Research Center (ARRC) at the University of Oklahoma! The ARRC is now more than 10 years old, and in that time has grown from a small group of energetic faculty and students into the largest academic radar program in the nation with well over 120 members.

-- Follow up needed: 15 minutes with Dr. Palmer. He suggested that we could help engage Mexican industry/agencies to produce radars like what the US and Canada are producing in partnership. Perhaps Dr. palmer can provide more detail? Could the Mexican partner be a government agency?

(confirmed attending) CIMMS (http://cimms.ou.edu/) **and NSSL**: Researchers at the National Weather Center are working on developing new advances in forecasting and warning processes. FACETs (Forecasting a Continuum of Environmental Threats) is a new program that is utilizing Probabilistic Hazard Information (PHI) to disseminate warnings in an entirely new fashion. NSSL HyDROS is a hydrometeorology group working on developing a new flash-flood model for better prediction of dangerous floors (FLASH model). Researchers from these groups can discuss their work in the NOAA Hazardous Weather Testbed (HWT).

-- Follow up needed: 20-30 minutes with ?? the North America Ministers are interested in extreme weather as we have an extreme weather project in CEC and it is also a priority for the G20. Is this the right center to explore possible extreme weather deliverables?

(confirmed attending) South Central Climate Science Center (http://southcentralclimate.org/): Established in 2012, the South Central Climate Science Center provides decision makers with the science, tools, and information they need to address the impacts of climate variability and change on their areas of responsibility. They promote multi-institutional and stakeholder-driven approaches to assessing the impact of climate extremes on natural and cultural resources.

-- Follow up needed: 20-30 minutes with Renee. Would like to explore more how to highlight the linkages to indigenous peoples. Renee was also going to explore if there are opportunities to engage Canada and Mexico.

(confirmed attending) GeoCARB: The largest grant ever awarded to the University of Oklahoma. The primary goals of the Geostationary Carbon Cycle Observatory (GeoCARB), led by Dr. Berrien Moore (Director of the National Weather Center and Dean of the College of Atmospheric & Geographic Sciences) of the University of Oklahoma in Norman, are to monitor plant health and vegetation stress throughout the Americas, and to probe, in unprecedented detail, the natural sources, sinks and exchange processes that control carbon dioxide, carbon monoxide and methane in the atmosphere. The press release from NASA (https://www.nasa.gov/press-release/nasa-announces-first-geostationary-vegetation-atmospheric-carbon-mission) and presentation (https://www.nacarbon.org/meeting_ab_presentations/2017/2017_Mar28_AM_Moore_III_217.pdf)

showing program details and international partners (including groups in Mexico) are presented here.

-- Follow up needed: 20-30 minutes with Cintia/others? Explore if NWC and our Secretariat could collaborate on new atmospheric, species migration, and event marine debris layers for the CEC North American Atlas. For this, I am bringing to the call our experts on information/atlas from the Secretariat. Explore identifying Mexican Space Agency to partner) and potential Canadian entity to partners on GeoCARB (GeoCARB building a T-CON station outside of Mexico City to support research on drought and agriculture; Oklahoma University has a campus in Puebla).?

(confirmed attending) Oklahoma Mesonet (http://mesonet.org/): Most sophisticated surface observation network (120 stations) in the United States, covering all 77 Oklahoma counties. The Oklahoma Mesonet has profound impacts for forecasting as well as for agriculture.

-- no follow up questions identified.

(TBD attendance) Center for Autonomous Sensing and Sampling (https://cass.ou.edu/): CASS's mission is to explore, advance, and develop complete adaptive and autonomous sensing and sampling systems for use in the atmosphere, on the ground, and in the water, and to help facilitate the integration of this technology across various disciplines and institutions. The goal of CASS is to establish itself as a recognized global leader in research, education, and development involving autonomous sensing and sampling solutions to address science and technology driven needs, fostering an environment for trans-disciplinary applications of this technology, and helping to promote the effective transfer of knowledge and technology to academia, government, and industry.

(TBD attendance) The University of Oklahoma Office of the Vice President for Research (https://vpr-norman.ou.edu/): The University of Oklahoma's Research Campus is a collaborative environment where academia, industry, and government build on the university's intellectual vitality. Collectively, the federal and private entities housed on the Research Campus represent more than 750 technology and knowledge-based jobs for the Norman community and the state of Oklahoma. Exciting new developments are in place, led by the OU VPR office, to grow the Norman Weather Enterprise with dramatic impacts on the Oklahoma economy. UAV/UAS research via CASS and the initiative to create the National Environmental Simulation and Testing Facility (http://nest.ou.edu/) are at the top of the list growing the Norman Weather Enterprise.

(TBD attendance) WDTD (http://training.weather.gov/wdtd/): This group trains all the National Weather Service forecasters in the United States, but has also provided training simulations for forecasters in Canada and Mexico

Of course, we would welcome any ideas that have evolved since our visit. The objective is to identify opportunities and select any low hanging fruit.